

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 12446750

Frame : 284/6TC	Cooling method : IC411 - TEFC
Insulation class : F	Mounting : F-1
Duty cycle : Cont.(S1)	Rotation ¹ : Both (CW and CCW)
Ambient temperature : -20°C to +40°C	Starting method : Direct On Line
Altitude : 1000 m.a.s.l.	Approx. weight ³ : 175 kg
Protection degree : IP55	Moment of inertia (J) : 0.3310 kgm ²
Design : B	

Output [HP]	15	10	10	10	15	15	15
Poles	6	6	6	6	6	6	6
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	230/460	380	400	415	380	400	415
Rated current [A]	35.8/17.9	15.5	15.1	15.0	22.2	20.9	20.2
L. R. Amperes [A]	233/116	112	119	124	104	111	117
LRC [A]	6.5x(Code G)	7.2x(Code J)	7.9x(Code K)	8.3x(Code K)	4.7x(Code E)	5.3x(Code F)	5.8x(Code G)
No load current [A]	14.8/7.40	7.50	8.00	8.50	7.50	8.00	8.50
Rated speed [RPM]	1175	980	985	985	965	970	975
Slip [%]	2.08	2.00	1.50	1.50	3.50	3.00	2.50
Rated torque [kgfm]	9.26	7.41	7.37	7.37	11.3	11.2	11.2
Locked rotor torque [%]	229	270	300	330	170	200	220
Breakdown torque [%]	240	290	340	360	200	220	240
Service factor	1.25	1.25	1.25	1.25	1.00	1.15	1.15
Temperature rise	80 K						
Locked rotor time	36s (cold) 20s (hot)	55s (cold) 31s (hot)	50s (cold) 28s (hot)	46s (cold) 26s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)
Noise level ²	59.0 dB(A)	56.0 dB(A)					
Efficiency (%)	25%						
	50%	91.0	89.0	89.1	89.1	91.0	90.2
	75%	91.7	89.4	89.5	89.5	90.2	90.2
	100%	91.7	89.4	89.5	89.5	88.5	89.5
Power Factor	25%						
	50%	0.69	0.64	0.61	0.58	0.73	0.72
	75%	0.80	0.76	0.73	0.71	0.82	0.81
	100%	0.84	0.82	0.80	0.78	0.85	0.85

Losses at normative operating points (speed;torque), in percentage of rated output power

Losses (%)	P1 (0,9;1,0)	8.5	11.0	11.0	11.2	9.2	8.9	8.8
	P2 (0,5;1,0)	6.8	8.8	8.8	8.9	7.3	7.1	7.0
	P3 (0,25;1,0)	6.4	8.2	8.2	8.3	6.9	6.7	6.6
	P4 (0,9;0,5)	5.1	6.6	6.6	6.7	5.5	5.3	5.3
	P5 (0,5;0,5)	3.4	4.4	4.4	4.5	3.7	3.6	3.5
	P6 (0,5;0,25)	2.6	3.4	3.4	3.5	2.8	2.8	2.7
	P7 (0,25;0,25)	1.9	2.4	2.4	2.4	2.0	1.9	1.9

Bearing type : Sealing : Lubrication interval : Lubricant amount : Lubricant type :	Drive end	6311 C3	Non drive end	6211 C3	Foundation loads Max. traction : 296 kgf Max. compression : 471 kgf
	V'Ring		V'Ring		
	20000 h		20000 h		
	18 g		11 g		
	Mobil Polyrex EM				

This revision replaces and cancel the previous one, which must be eliminated.

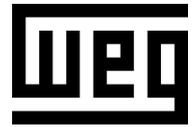
(1) Looking the motor from the shaft end.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	28/03/2026		1 / 9	

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : _____

Notes
USABLE @208V 39.6A SF 1.15 SFA 45.5A

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	28/03/2026		2 / 9	

LOAD PERFORMANCE CURVE

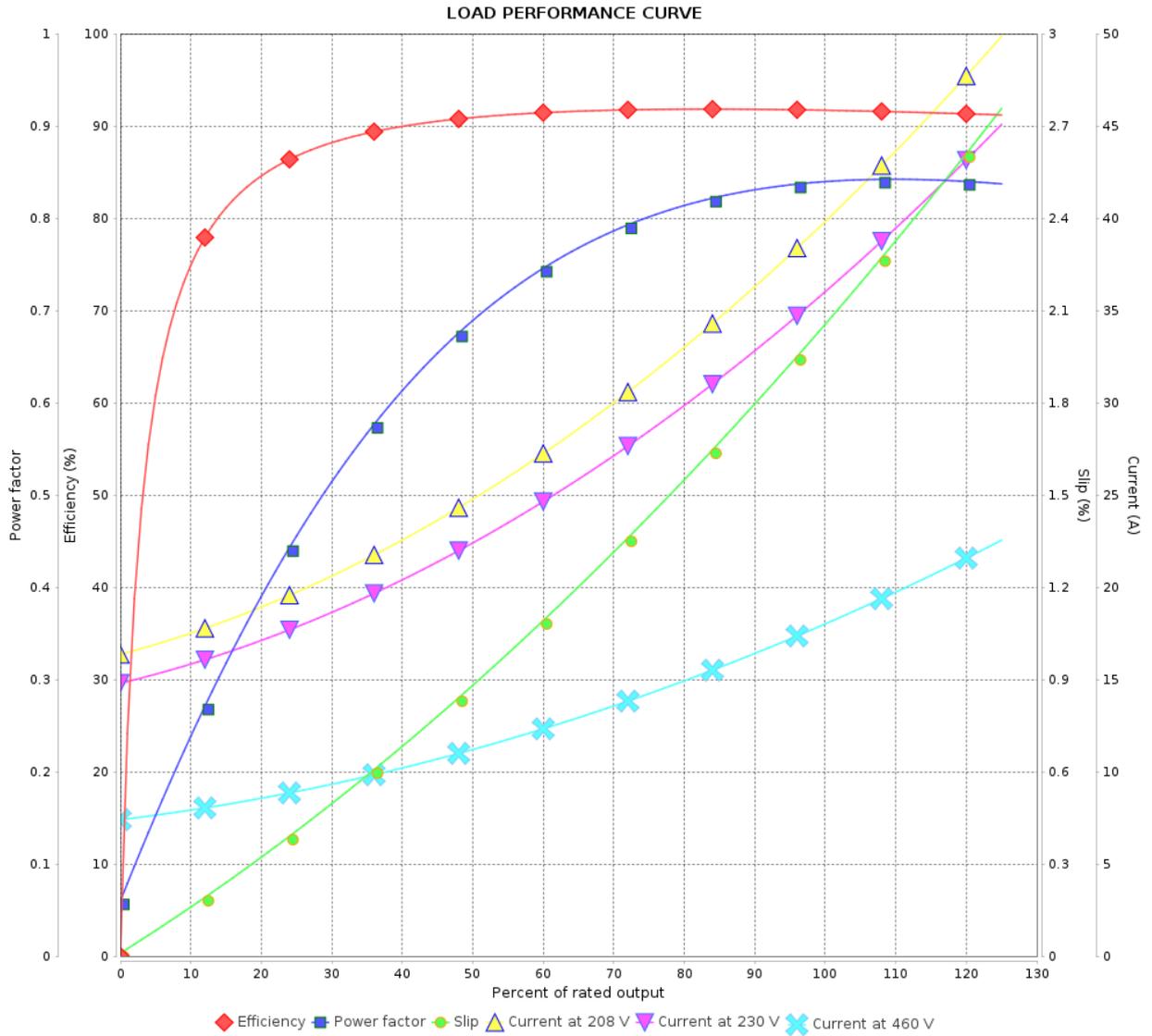
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12446750



Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 3 / 9	Revision
Checked by				
Date 28/03/2026				

LOAD PERFORMANCE CURVE

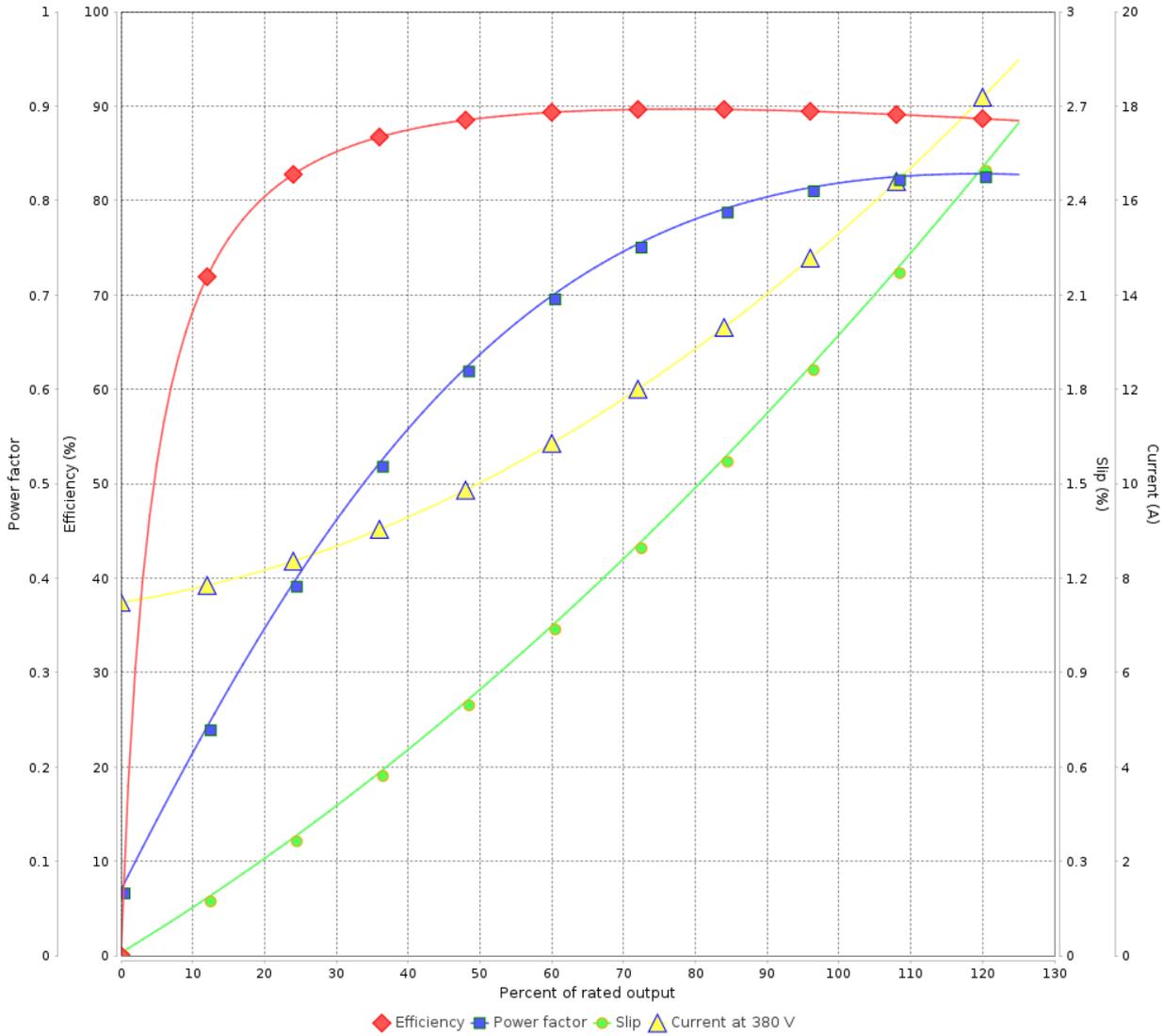
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 12446750

LOAD PERFORMANCE CURVE



Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 4 / 9	Revision
Checked by				
Date 28/03/2026				

LOAD PERFORMANCE CURVE

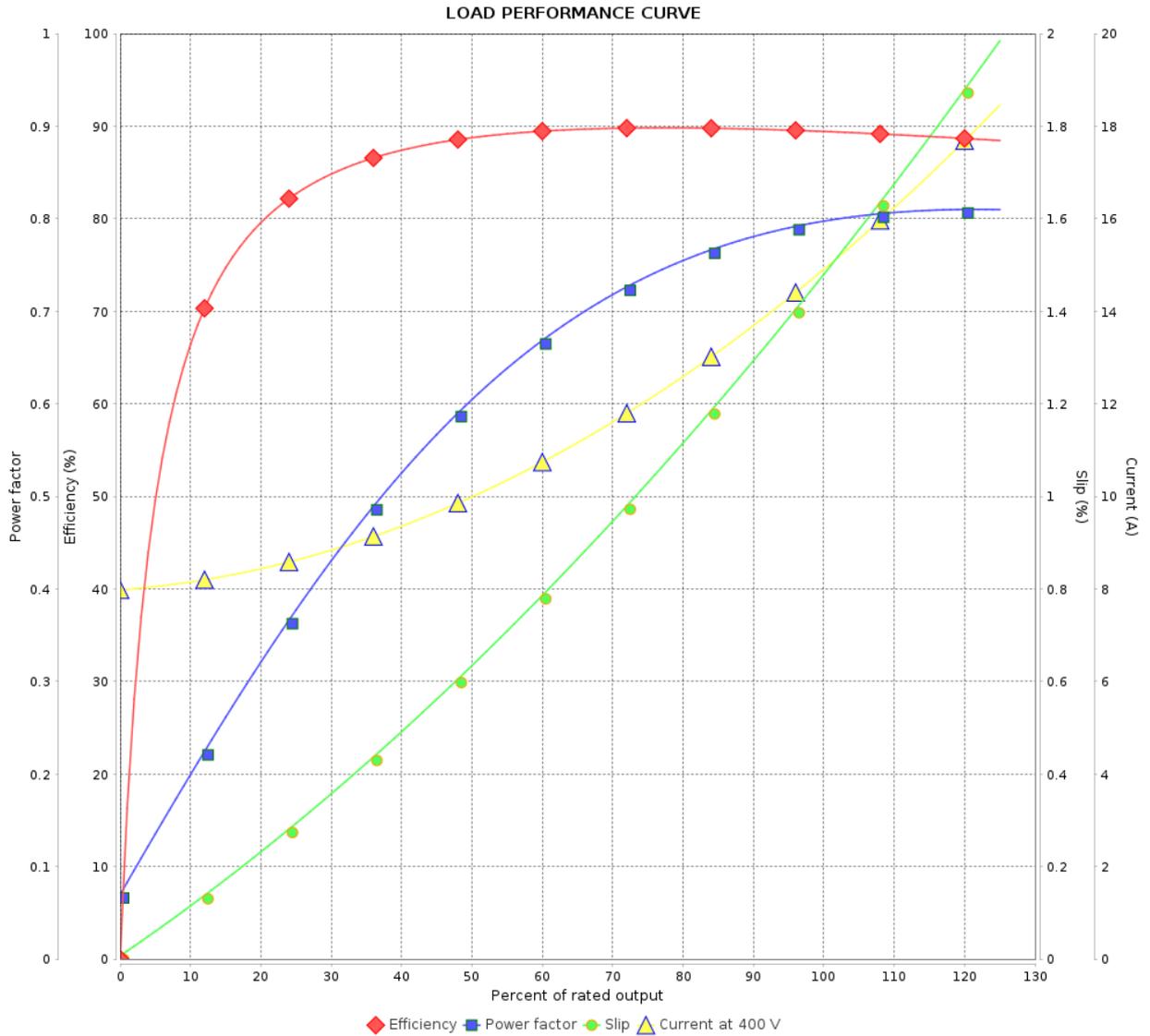
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

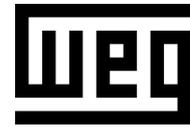
Product code : 12446750



Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 5 / 9	Revision
Checked by				
Date				

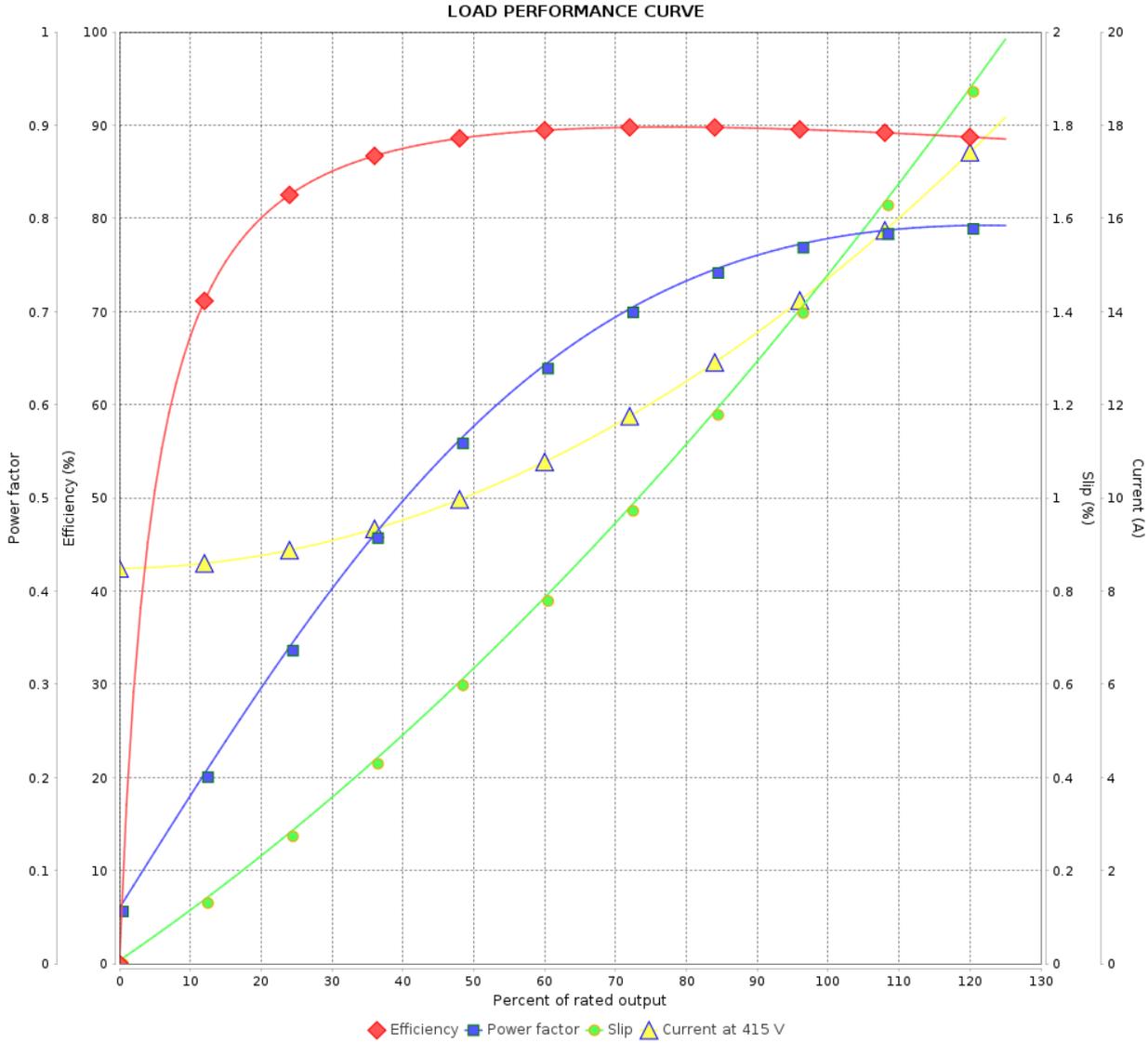
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 12446750



Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 6 / 9		Revision
Checked by				
Date				

LOAD PERFORMANCE CURVE

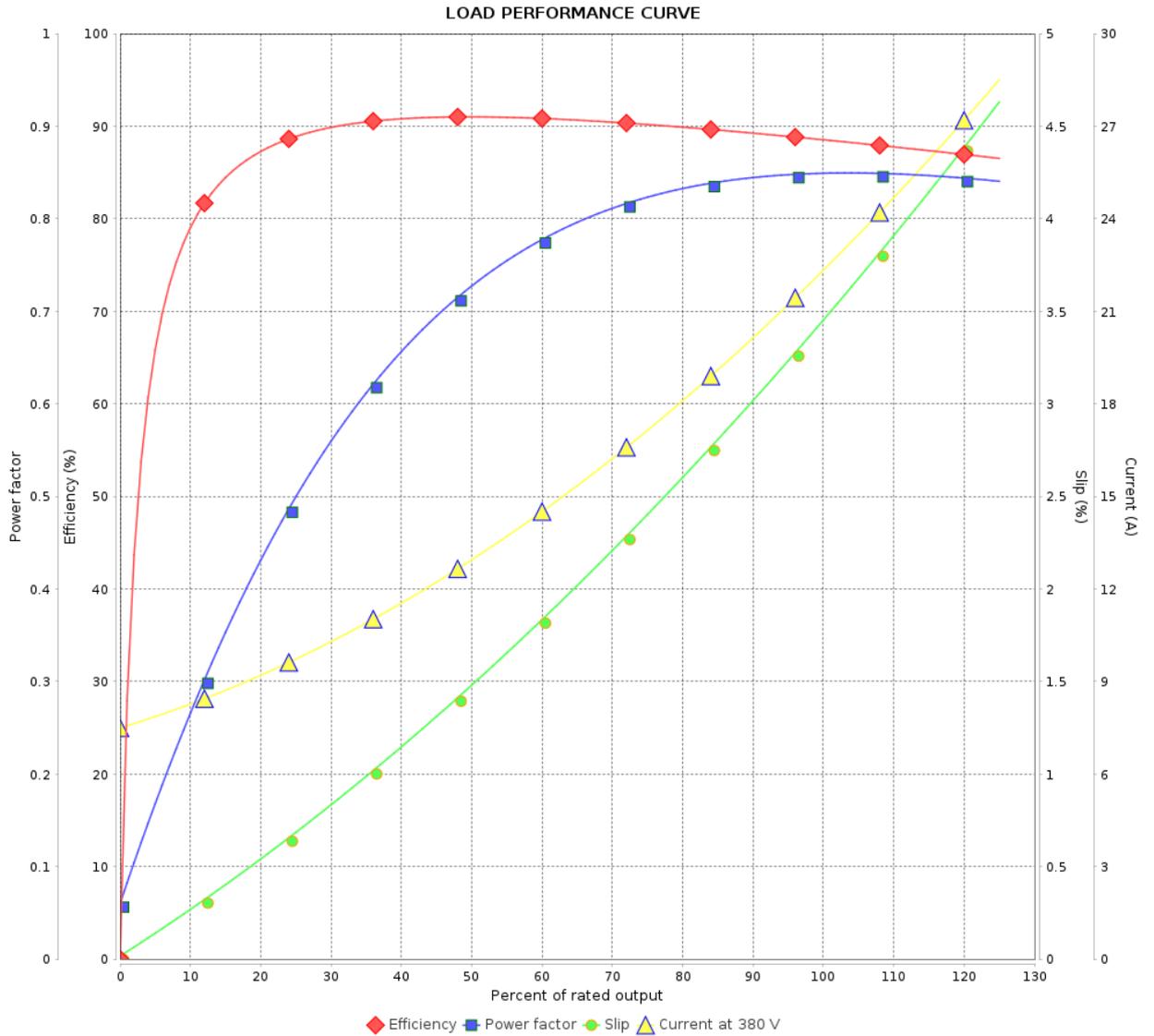
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

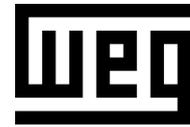
Product code : 12446750



Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 7 / 9	Revision
Checked by				
Date 28/03/2026				

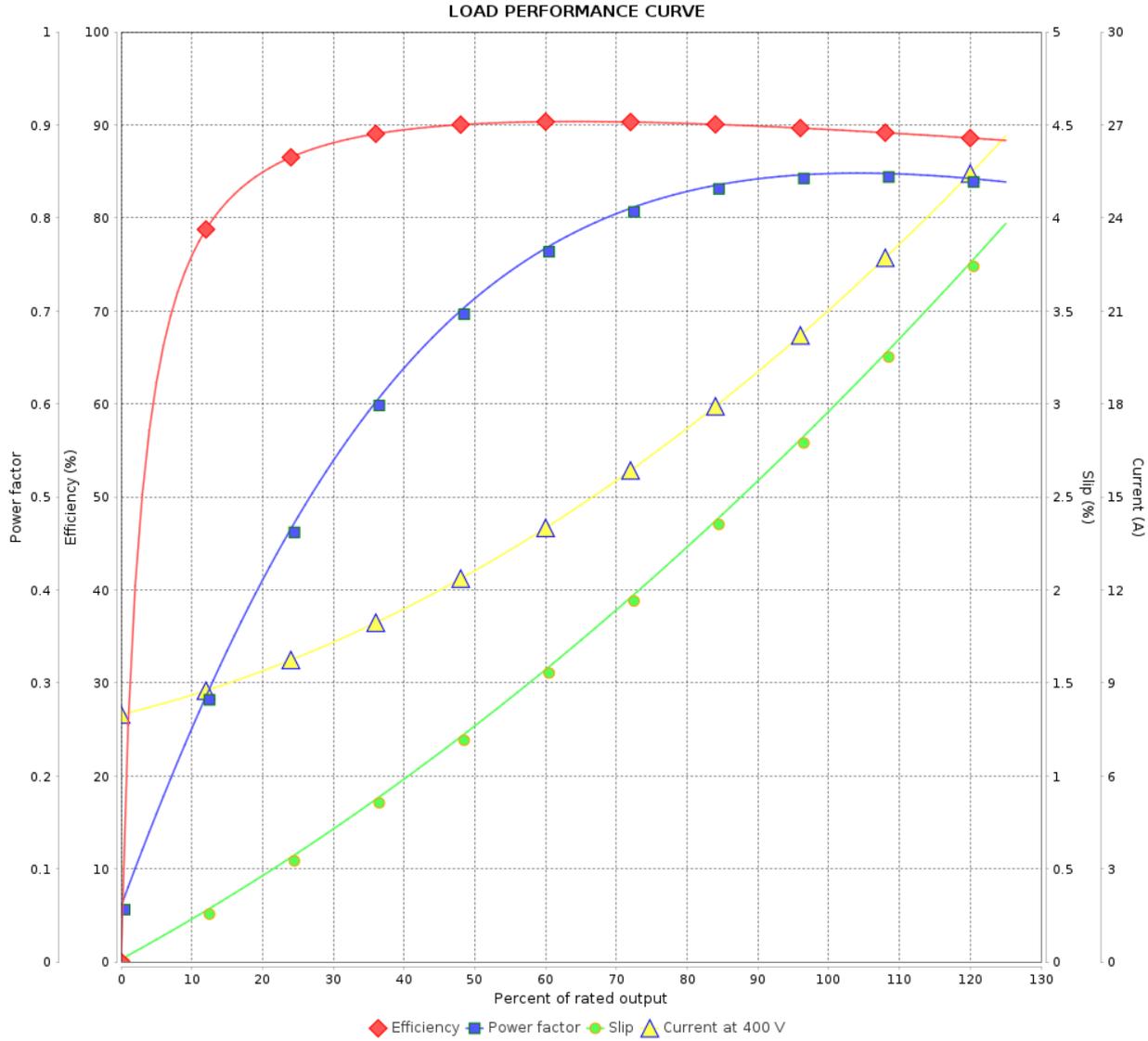
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 12446750



Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 8 / 9	Revision
Checked by				
Date				

LOAD PERFORMANCE CURVE

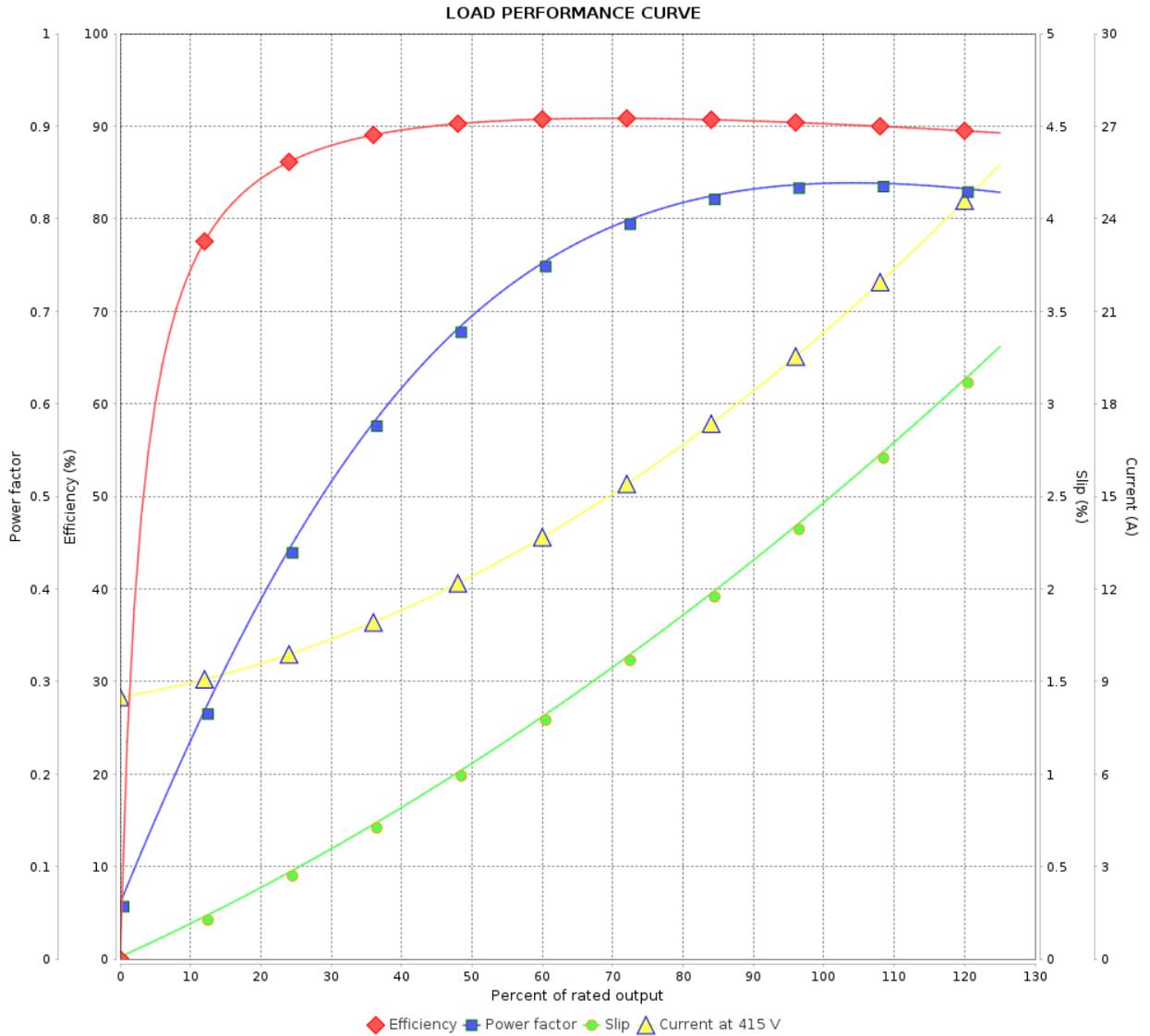
Three Phase Induction Motor - Squirrel Cage



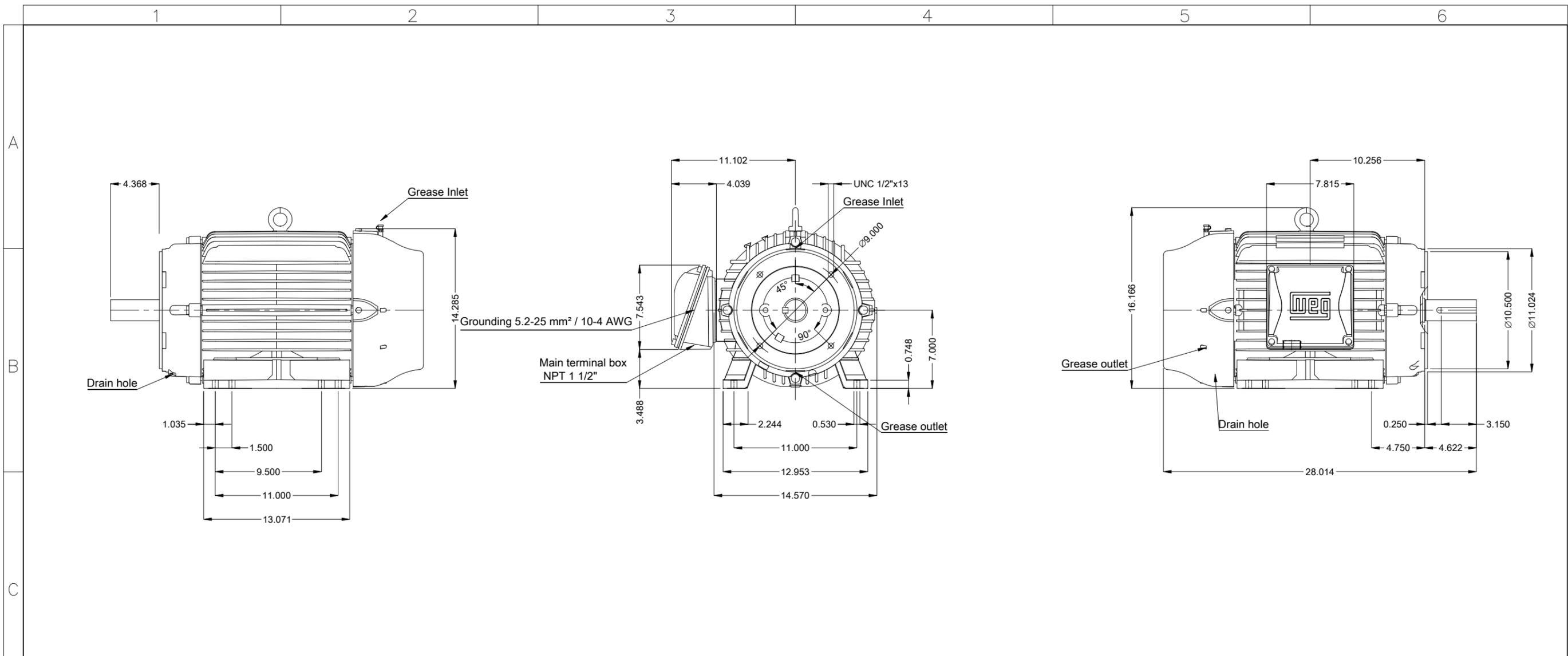
Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

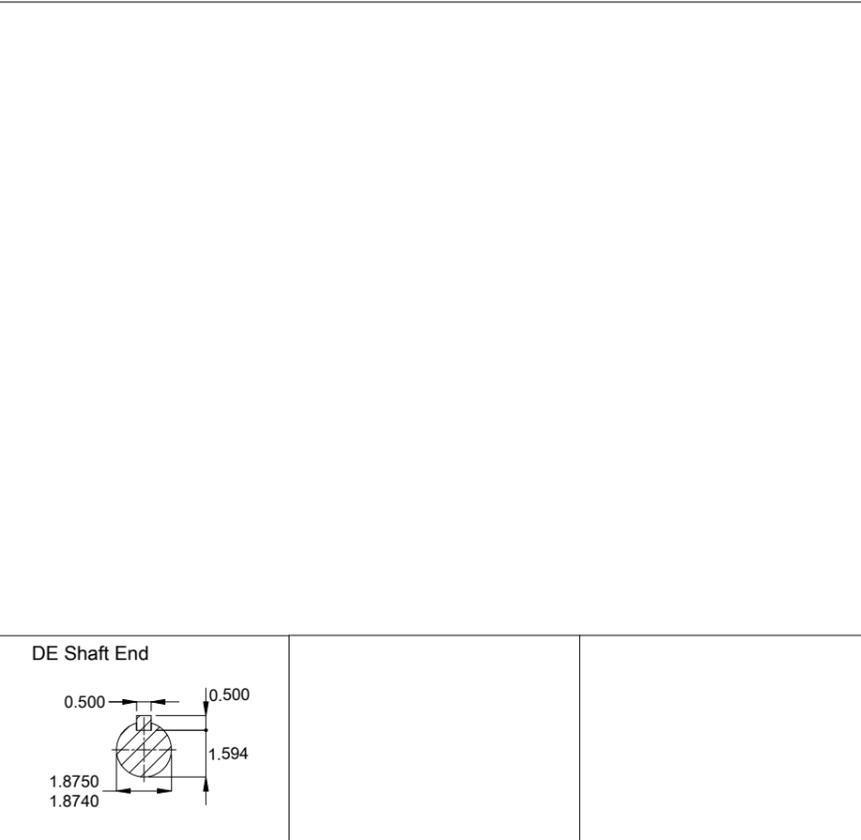
Product code : 12446750



Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date				
		Page 9 / 9	Revision	



Without vertical jackscrews
 Color RAL 5009
 Painting plan 203A
 Mounting B34D



15 HP 06 Poles 60 Hz										A	
Scale 1 : 9											
HYBRISUSER										00	
ECM	LOC	SUMMARY OF MODIFICATIONS					EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR W22 NEMA PREM. EFF.					PREVIEW		WDD 00		
CHECKED		FRAME 284/6TC IP55 TEFC					SHEET 1 / 1				
RELEASED											
REL. DATE											